



Missouri
Department of
Natural Resources

City Utilities of Springfield
Power Plant Name: Noble Hill Landfill
Electric Generation and Emissions in 2010

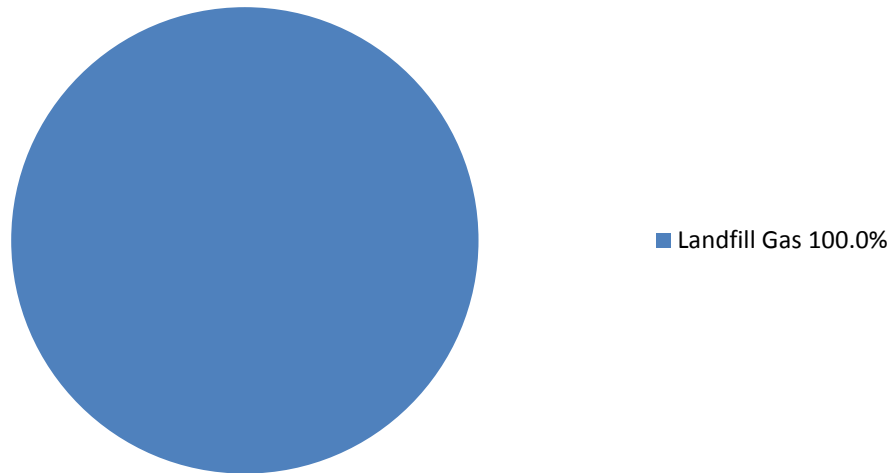
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal						
Natural Gas						
Petroleum						
Nuclear						
Other						
Non-renewable total						
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas	245,161	100.0%	100.0%	23,057	100.0%	100.0%
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total	245,161	100.0%	100.0%	23,057	100.0%	100.0%
Grand total	245,161		100.0%	23,057		100.0%

Fuel Type	Physical Units	Number of Units
Landfill Gas	MCf	454,000



Net Generation by Fuel Type, 2010 for Noble Hill Landfill





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Power Plant Nameplate information for Noble Hill Landfill

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Noble Hill Landfill</i>		<i>All Operating Generators</i>			<i>12.8</i>
Noble Hill Landfill	Greene	NHLC	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	12.8



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Emissions from Electricity Generated in 2010: Noble Hill Landfill

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Noble Hill Landfill	340,042	56,286	3,459	681

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Noble Hill Landfill	0	0.0000	0.0000

Identified Flue Gas Desulfurization (FGD) controls installed on Noble Hill Landfill power plant

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Noble Hill Landfill power plant

Plant	Control Equipment
	No FGP Controls Installed



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Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>